

CLAIMS

1. A masking member used for measurement of one of fluorescence and light emission originated from a measurement object, which is placed in a liquid in a container, through a bottom of the container, said masking member comprising:

5 a light shielding part having liquid permeability, and also having light shielding effect for shielding a background light traveling from a liquid, which is located on the opposite side of the bottom of the container across the measurement object, toward the bottom of the container; and

10 an outer frame part for positioning said light shielding part on the opposite side of the bottom of the container across the measurement object, while supporting said light shielding part.

2. A masking member applied to a microplate having a plurality of wells in each of which is accommodated a liquid containing a measurement object, and being used for measurement of one of fluorescence and light emission, originated from the measurement object accommodated in each of the wells, through each bottom of the wells, said masking member comprising:

15 a plurality of light shielding parts, being prepared corresponding to each of the wells, each having liquid permeability, and having light shielding effect for shielding a background light traveling from the liquid, which is located on the opposite side of the bottom of the corresponding well across the measurement object accommodated in the corresponding well, toward the bottom of the corresponding well; and

20 a supporting structure including a sheet-shaped part covering an

upper plane of the microplate, and a plurality of outer frame parts each being prepared corresponding to one of the wells for positioning the corresponding one of said light shielding parts on the opposite side of the bottom of the corresponding well across the measurement object accommodated in the corresponding well, while supporting the corresponding one of said light shielding parts.

3. A light measuring method comprising:

a first step of placing a measurement object in a container;

a second step of adding into said container a liquid containing at least one of fluorescent dye, test compound and light emission reagent;

a third step of shielding a background light traveling from a liquid, which is located on the opposite side of the bottom of said container across the measurement object, wherein a masking member having a light shielding part with light shielding effect and liquid permeability is prepared, and said masking member is arranged with respect to said container so that the measurement object is sandwiched between said light shielding part and the bottom of said container; and

a fourth step of measuring one of fluorescence and light emission, originated from the measurement object, through the bottom of said container.

4. A light measuring method comprising:

a first step of placing a measurement object into a container;

a second step of preparing a masking member including a light shielding part with light shielding effect and liquid permeability, and for arranging said masking member with respect to said container so that the measurement object is sandwiched between the bottom of said

container and said light shielding part;

a third step of adding into said container a liquid containing at least one of fluorescent dye, test compound and light emission reagent; and

5 a fourth step of measuring one of fluorescence and light emission, originated from the measurement object, through the bottom of said container, while shielding a background light traveling from a liquid, which is located on the opposite side of the bottom of said container across the measurement object, toward the bottom said the
10 container by said masking member.

5. A light measuring kit for measuring one of fluorescence and light emission, originated from a measurement object placed in a liquid in a container, through the bottom of said container, comprising:

a container for accommodating the measurement object together
15 with the liquid; and

one or more masking members each having the same structure as that of a masking member according to claim 1.

6. A light measuring kit comprising:

a microplate having one or more wells each accommodating a
20 measurement object; and

one or more masking members each having the same structure as that of a masking member according to claim 1.

7. A light measuring kit comprising:

a microplate having a plurality of wells each accommodating a
25 measurement object; and

a masking member according to claim 2.

8. A light measuring container accommodating a measurement object together with a liquid therein and measuring one of fluorescence and light emission, originated from the measurement object, through the bottom thereof,

5 wherein a positioning means is provided on an inner wall of said container, for positioning a masking member with liquid permeability and also light shielding effect for shielding a background light traveling from a liquid, which is located on the opposite side of the bottom of said container across the measurement object, toward the bottom of said
10 container.

9. A light measuring container comprising a plurality of wells each accommodating a liquid containing a measurement object, and being used for measuring one of fluorescence and light emission, originated from a measurement object accommodated in each of the
15 wells, through each bottom of the wells respectively,

 wherein a positioning means is provided on an inner wall of each of the wells, for positioning a masking member having liquid permeability and shielding a background light traveling from a liquid, which is located on the opposite side of the bottom of the corresponding
20 well across the measurement object accommodated in the corresponding well, toward the bottom of the corresponding well.